

ABSTRACT OF THE INVENTION

**STEREOSCOPIC X-RAY IMAGING APPARATUS FOR OBTAINING
THREE-DIMENSIONAL COORDINATES**

A screening device (1) for use in scanning objects for security checking or medical observation includes an X-ray source (4) providing two beams (6, 8) for projection at the object, a linear sensor array (10, 12) being provided for each beam whereby an intensity map and a motion map is generated to provide a data set from which a 3D image can be generated and viewed.